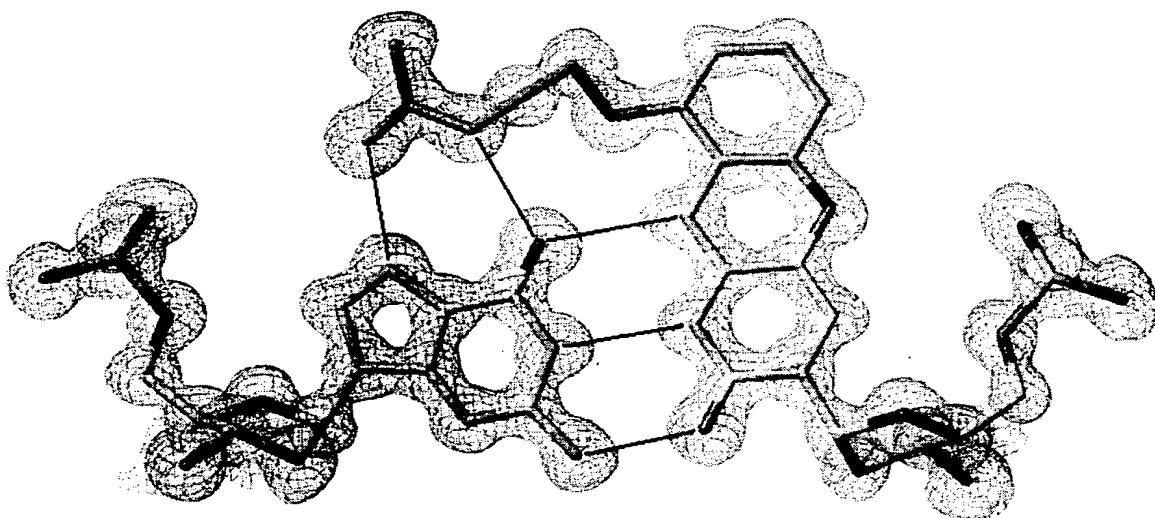




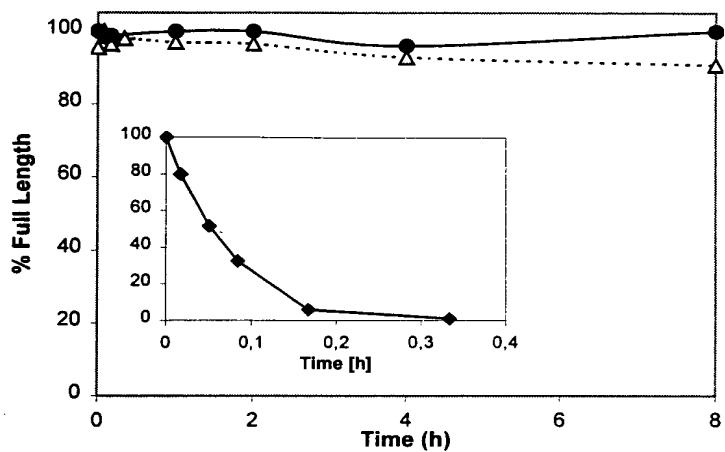
2/7



**Figure 2.** Fourier ( $2F_o - F_c$ ) sum electron density map (contoured at  $1.25\sigma$ ) around C12\* and G9 confirming formation of five hydrogen bonds (indicated by thin solid lines with distances shown in Å).



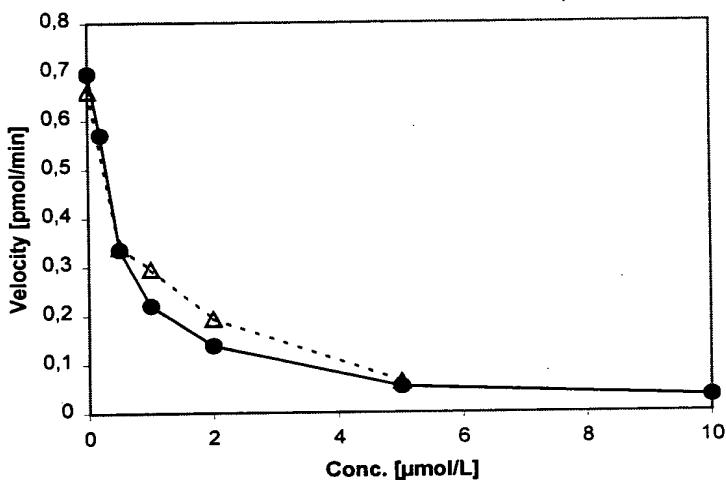
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**Figure 4**

**Figure 4.** Degradation of ONs 157 (open triangles) and 158 (closed circles) as a function of incubation time and compared to an unmodified control ON 159 (closed diamonds, insert) determined by CGE analysis.

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**Figure 5.**

**Figure 5.** Velocity of the enzymatic reaction: hydrolysis of ON 159 with BIPD as a function of the concentration of co-incubated ON 157 (open triangles) and ON 158 (closed circles).

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Stability of 3'-L-Nucleotide End-Capped

BalbC  
mice  
25 mg/kg  
dose  
i.v.

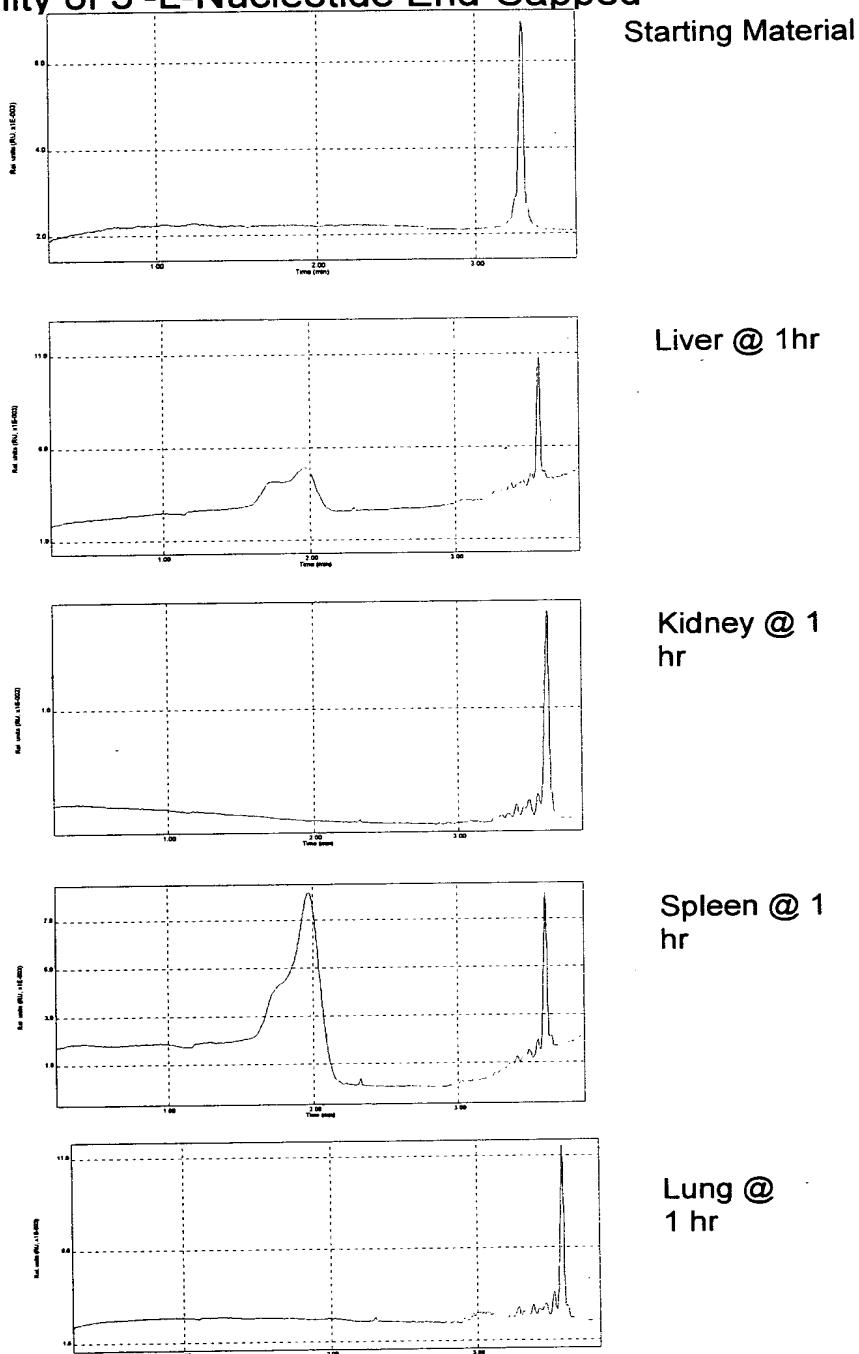


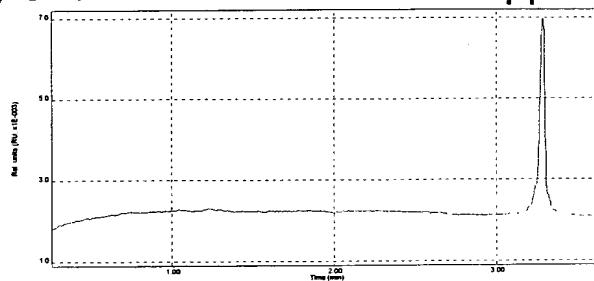
Figure 6

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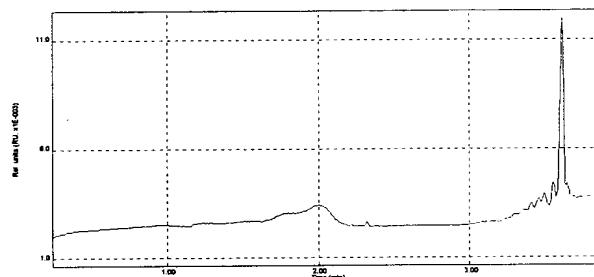
### Stability of 3'-L-Nucleotide End-Capped

2000 1500 1000 500 0  
Time (min)

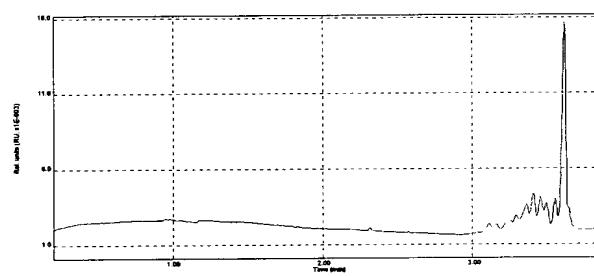
BalbC  
mice  
25 mg/kg  
dose  
i.v.



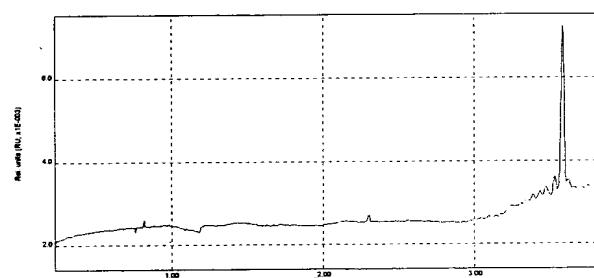
Starting Material



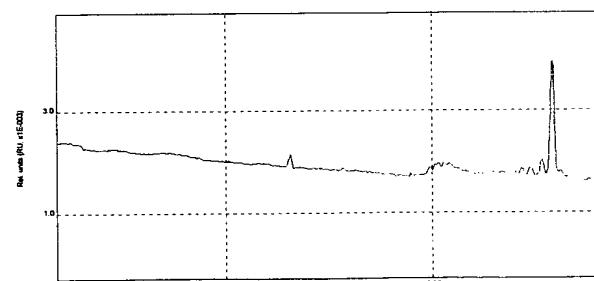
Liver @ 24  
hr



Kidney @ 24  
hr



Spleen @ 24 hr



Lung @ 24 hr

Figure 7